



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

NAWABGANJ, KANPUR - 208002, U.P., INDIA

(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone : +91-0512-2534001-5, 2533812, website : <http://www.hbtu.ac.in>, Email : vc@hbtu.ac.in

100+ YEARS
1921 - 2021



1.1.3 Average percentage of courses having focus on employability/entrepreneurship/skill development offered by the University

1.1.3.1: Number of courses having focus on employability/entrepreneurship/skill development year-wise during the year

Department of Plastic Technology

Name of Course	Course Code	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development*
Polymer Chemistry	TPL 251	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Chemistry Lab	TPL 253	2020-2021	Entrepreneurship, Skill development, Employability
Polymerization Engineering I	TPL 252	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Processing I	TPL 351	2020-2021	Entrepreneurship, Skill development, Employability
Rheology and Testing of Polymers	TPL 353	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Testing Lab	TPL 355	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Processing II	TPL 352	2020-2021	Entrepreneurship, Skill development, Employability
Structure & Property of Polymers	TPL 354	2020-2021	Entrepreneurship, Skill development, Employability
Polymerization Engineering II	TPL 356	2020-2021	Entrepreneurship, Skill development, Employability
Plastic Product and Mold Design	TPL 358	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Composite	TPL 360	2020-2021	Entrepreneurship, Skill development, Employability
Advanced Polymer Materials	TPL 401	2020-2021	Entrepreneurship, Skill development, Employability
Programme Elective Course I	TPL 403/405	2020-2021	Entrepreneurship, Skill development, Employability
Plastic Product & Mould Design	TPL 403	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Product Technology	TPL 405	2020-2021	Entrepreneurship, Skill development, Employability
Programme Elective Course II	TPL 407/409	2020-2021	Entrepreneurship, Skill development, Employability
Technology of Elastomers	TPL 407	2020-2021	Entrepreneurship, Skill development, Employability

(Dr. Lalit Kumar Singh)
Dean of Academic Affairs



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Technology of Fibers	TPL 409	2020-2021	Entrepreneurship, Skill development, Employability
Programme Elective Course III	TPL 411/413	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Blends & Alloys	TPL 413	2020-2021	Entrepreneurship, Skill development, Employability
Introduction to Polymer Technology (Elective)	TPL 415	2020-2021	Entrepreneurship, Skill development, Employability
Educational Tour	TPL 417	2020-2021	Entrepreneurship, Skill development, Employability
Programme Elective Course V	TPL 402/404	2020-2021	Entrepreneurship, Skill development, Employability
Plastic Packaging & waste Management	TPL 402	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Coating Technology	TPL 404	2020-2021	Entrepreneurship, Skill development, Employability
Programme Elective Course VI	TPL 406/408	2020-2021	Entrepreneurship, Skill development, Employability
Polymeric Adhesives & Foams	TPL 406	2020-2021	Entrepreneurship, Skill development, Employability
Polymer Nanocomposites	TPL 408	2020-2021	Entrepreneurship, Skill development, Employability
Rheology & Testing of Polymers	TPL 303	2019-2020	Entrepreneurship, Skill development, Employability
Structure & Property of Polymer	TPL 302	2019-2020	Entrepreneurship, Skill development, Employability
Fluid Flow & Unit operation	TCH 203	2018-2019	Entrepreneurship, Skill development, Employability
Equipment Design	CH-701	2018-2019	Entrepreneurship, Skill development, Employability
Polymeric Adhesives & Sealants	PL-703	2018-2019	Entrepreneurship, Skill development, Employability
Plastic Technology	Open Elective*	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Characterization Lab	PL – 751	2018-2019	Entrepreneurship, Skill development, Employability
Industrial Training & Report Presentation	PL-752	2018-2019	Entrepreneurship, Skill development, Employability
Process Modeling and Simulation	CH-801	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Composites	PL – 801	2018-2019	Entrepreneurship, Skill development, Employability
Plastics Packaging And Foam	PL-011 (Elective)	2018-2019	Entrepreneurship, Skill development, Employability
Plastic Waste Management	PL-012 (Elective)	2018-2019	Entrepreneurship, Skill development, Employability

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Fiber Technology	PL-013 (Elective)	2018-2019	Entrepreneurship, Skill development, Employability
Polymeric Coatings	PL-014 (Elective)	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Testing Lab - I	PL – 551	2018-2019	Entrepreneurship, Skill development, Employability
Synthesis and Modification of Polymers and Resins Lab	PL-552	2018-2019	Entrepreneurship, Skill development, Employability
Chemical Engg Unit Operation Lab	CH-551	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Processing - II	PL-602	2018-2019	Entrepreneurship, Skill development, Employability
Polymerization Engg - II	PL-603	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Processing Lab	PL-651	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Testing - II	PL-652	2018-2019	Entrepreneurship, Skill development, Employability
Analysis and Identification of Polymers	HPL-351	2018-2019	Entrepreneurship, Skill development, Employability
Fluid Flow and Solid Handling	HCH-406	2018-2019	Entrepreneurship, Skill development, Employability
Chemical Engg Thermodynamics	HCH-407	2018-2019	Entrepreneurship, Skill development, Employability
Instrumentation and Process Control	HCH-408	2018-2019	Entrepreneurship, Skill development, Employability
Polymerization Engineering - I	HPL – 401	2018-2019	Entrepreneurship, Skill development, Employability
Instrumentation and Process Control Lab	HCH-458	2018-2019	Entrepreneurship, Skill development, Employability
Synthesis of Polymers and Resins Lab	HPL – 451	2018-2019	Entrepreneurship, Skill development, Employability
Polymer Product Technology	TPL 457	2021-22	Entrepreneurship, Skill development, Employability
Polymer Nanocomposites	TPL 461	2021-22	Entrepreneurship, Skill development, Employability
Polymer Blends and Alloys	TPL 455	2021-22	Entrepreneurship, Skill development, Employability
Polymer Chemistry Lab	TPL 253	2021-22	Entrepreneurship, Skill development, Employability
Polymer Testing Lab	TPL 355	2021-22	Entrepreneurship, Skill development, Employability
Advanced Polymer Chemistry	TPL 551	2021-2022	Entrepreneurship, Skill development, Employability
Advanced Polymer Processing	TPL 553	2021-2022	Entrepreneurship, Skill development, Employability

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Advances in Modelling and Simulation of Chemical Processes	TPL 555	2021-2022	Entrepreneurship, Skill development, Employability
Advanced Chemical Reaction Engineering	TPL 557	2021-2022	Entrepreneurship, Skill development, Employability
Advanced Polymer Rheology	TPL 559	2021-2022	Entrepreneurship, Skill development, Employability
High Polymer Chemistry	TPL 561	2021-2022	Entrepreneurship, Skill development, Employability
Polymer Processing	TPL 563	2021-2022	Entrepreneurship, Skill development, Employability
Industrial Stoichiometry	TPL 567	2021-2022	Entrepreneurship, Skill development, Employability
Advanced Polymerization Engineering	TPL 552	2021-2022	Entrepreneurship, Skill development, Employability
Advanced Plastic Product and Mould Design	TPL 554	2021-2022	Entrepreneurship, Skill development, Employability
Polymer Testing and Characterization	TPL 556	2021-2022	Entrepreneurship, Skill development, Employability
Advances in Polymer Composites	TPL 558	2021-2022	Entrepreneurship, Skill development, Employability
Advances in Rubber Technology	TPL 560	2021-2022	Entrepreneurship, Skill development, Employability
Audit Course Critical review of research publication on one relevant Topic	TPL 562	2021-2022	Entrepreneurship, Skill development, Employability
Audit Course Research Methodology and IPR	TPL 564	2021-2022	Entrepreneurship, Skill development, Employability
Technology of Polymer Blends & Alloys	TPL 651	2021-2022	Entrepreneurship, Skill development, Employability
Biodegradable Polymers, Packaging and Waste Management	TPL 653	2021-2022	Entrepreneurship, Skill development, Employability
Polymer Nano Technology	TPL 655	2021-2022	Entrepreneurship, Skill development, Employability
Audit Course Critical Review of Research Publications on one Relevant Topic	TPL 611	2021-2022	Entrepreneurship, Skill development, Employability
Audit Course Research Methodology and IPR	TPL 613	2021-2022	Entrepreneurship, Skill development, Employability
Seminar	TPL 697	2021-2022	Entrepreneurship, Skill development, Employability
Dissertation/Project	TPL 695	2021-2022	Entrepreneurship, Skill development, Employability
Dissertation/ Project	TPL 698	2021-2022	Entrepreneurship, Skill development, Employability
Advanced Polymer Chemistry	TPL 551	2021-22	Entrepreneurship, Skill development, Employability
Advanced Polymer Processing	TPL 553	2021-22	Entrepreneurship, Skill development, Employability

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Advanced Chemical Reaction Engineering	TPL 557	2021-22	Entrepreneurship, Skill development, Employability
Advanced Polymer Rheology	TPL 559	2021-22	Entrepreneurship, Skill development, Employability
High Polymer Chemistry	TPL 561	2021-22	Entrepreneurship, Skill development, Employability
Polymer Processing	TPL 563	2021-22	Entrepreneurship, Skill development, Employability
Industrial Stoichiometry	TPL 567	2021-22	Entrepreneurship, Skill development, Employability
Advanced Polymerization Engineering	TPL 552	2021-22	Entrepreneurship, Skill development, Employability
Advanced Plastic Product and Mould Design	TPL 554	2021-22	Entrepreneurship, Skill development, Employability
Polymer Testing and Characterization	TPL 556	2021-22	Entrepreneurship, Skill development, Employability
Advances in Polymer Composites	TPL 558	2021-22	Entrepreneurship, Skill development, Employability
Advances in Rubber Technology	TPL 560	2021-22	Entrepreneurship, Skill development, Employability
Audit Course Critical review of research publication on one relevant Topic	TPL 562	2021-22	Entrepreneurship, Skill development, Employability
Audit Course Research Methodology and IPR	TPL 564	2021-22	Entrepreneurship, Skill development, Employability
Technology of Polymer Blends & Alloys	TPL 651	2021-22	Entrepreneurship, Skill development, Employability
Biodegradable Polymers, Packaging and Waste Management	TPL 653	2021-22	Entrepreneurship, Skill development, Employability
Polymer Nano Technology	TPL 655	2021-22	Entrepreneurship, Skill development, Employability
Audit Course Critical Review of Research Publications on one Relevant Topic	TPL 611	2021-22	Entrepreneurship, Skill development, Employability
Audit Course Research Methodology and IPR	TPL 613	2021-22	Entrepreneurship, Skill development, Employability
Seminar	TPL 697	2021-22	Entrepreneurship, Skill development, Employability
Dissertation/Project	TPL 695	2021-22	Entrepreneurship, Skill development, Employability
Dissertation/ Project	TPL 698	2021-22	Entrepreneurship, Skill development, Employability
Introduction to Polymer Chemistry (ITPC)	NPL 201	2023-24	Entrepreneurship, Skill development, Employability

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Polymerization Engineering-I (PE-I)	NPL 203	2023-24	Entrepreneurship, Skill development, Employability
Polymer Chemistry LAB (PC LAB)	NPL 207	2023-24	Entrepreneurship, Skill development, Employability
Processing of Polymers -I(PP-I)	NPL 202	2023-24	Entrepreneurship, Skill development, Employability
Polymerization Engineering-II (PE-II)	NPL 208	2023-24	Entrepreneurship, Skill development, Employability
Polymerization Engineering Lab (PE LAB)	NPL 210	2023-24	Entrepreneurship, Skill development, Employability
Advanced Polymer Chemistry	NPL 501	2023-24	Entrepreneurship, Skill development, Employability
Advanced Chemical Reaction Engineering	NCH 503	2023-24	Entrepreneurship, Skill development, Employability
Advanced Polymer Processing	NPL 505	2023-24	Entrepreneurship, Skill development, Employability
Artificial Intelligence in Chemical Engineering	NCH 507	2023-24	Entrepreneurship, Skill development, Employability
Advanced Polymer Composites	NPL 509	2023-24	Entrepreneurship, Skill development, Employability
Polymer Processing	NPL 513	2023-24	Entrepreneurship, Skill development, Employability
High Polymer Chemistry	NPL 515	2023-24	Entrepreneurship, Skill development, Employability
Polymer Rheology	NPL 517	2023-24	Entrepreneurship, Skill development, Employability
Polymer Additives and Compounding	NPL 519	2023-24	Entrepreneurship, Skill development, Employability
Instrumental Methods of Analysis	NCH 513	2023-24	Entrepreneurship, Skill development, Employability
Advanced Polymerization Engineering	NPL 502	2023-24	Entrepreneurship, Skill development, Employability
Advanced Plastic Product and Mould Design	NPL 504	2023-24	Entrepreneurship, Skill development, Employability
Polymer Testing and Characterization	NPL 506	2023-24	Entrepreneurship, Skill development, Employability
Statistical Design of Experiments	NCH 508	2023-24	Entrepreneurship, Skill development, Employability
Advanced Rubber Technology	NPL 510	2023-24	Entrepreneurship, Skill development, Employability
Structure-property relationship in Polymers	NPL 512	2023-24	Entrepreneurship, Skill development, Employability

***Related Activities: Assignments, Quiz, Group discussions, Tutorials, laboratory classes, Projects, etc.**

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Department of Civil Engineering

Name of Course	Course Code	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development*
Building Material & Construction	ECE 251	2018-2019	Entrepreneurship, Skill development, Employability
Surveying-I	ECE-253	2018-2019	Entrepreneurship, Skill development, Employability
Engineering Geology	ECE-255	2018-2019	Entrepreneurship, Skill development, Employability
Engineering Fluid Mechanics	ECE 252	2018-2019	Entrepreneurship, Skill development, Employability
Structural Analysis-I	ECE-254	2018-2019	Entrepreneurship, Skill development, Employability
Design of Concrete Structure-I	ECE-256	2018-2019	Entrepreneurship, Skill development, Employability
Surveying-II	ECE-258	2018-2019	Entrepreneurship, Skill development, Employability
Hydraulics & Hydraulics Machine	ECE-301	2019-2020	Entrepreneurship, Skill development, Employability
Geotech. Engg.-I	ECE-303	2019-2020	Entrepreneurship, Skill development, Employability
Structural Analysis-II	ECE-305	2019-2020	Entrepreneurship, Skill development, Employability
Design of Concrete Structure-II	ECE-307	2019-2020	Entrepreneurship, Skill development, Employability
Transportation Engg.-I.	ECE-309	2019-2020	Entrepreneurship, Skill development, Employability
Design of Steel Structure	ECE-302	2019-2020	Entrepreneurship, Skill development, Employability
Transportation Engineering -II	ECE-304	2019-2020	Entrepreneurship, Skill development, Employability
Engineering Hydrology	ECE-306	2019-2020	Entrepreneurship, Skill development, Employability
Environmental Engineering-I	ECE-308	2019-2020	Entrepreneurship, Skill development, Employability
Geotech. Engineering-II	ECE-310	2019-2020	Entrepreneurship, Skill development, Employability
Irrigation & Hydraulic Design	ECE-312	2019-2020	Entrepreneurship, Skill development, Employability
Estimation Construction & Management	ECE-401	2020-2021	Entrepreneurship, Skill development, Employability

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Environmental Engineering-II	ECE-403	2020-2021	Entrepreneurship, Skill development, Employability
Transportation System and Planning	ECE-455 (PEC-I)	2020-2021	Entrepreneurship, Skill development, Employability
Soil Dynamics	ECE-457 (PEC-I)	2020-2021	Entrepreneurship, Skill development, Employability
Structural Dynamics	ECE-469 (PEC-II)	2020-2021	Entrepreneurship, Skill development, Employability
Pre-stressed Concrete Design	ECE-475 (PEC-II)	2020-2021	Entrepreneurship, Skill development, Employability
Advanced Concrete Technology	ECE-460 (PEC-III)	2020-2021	Entrepreneurship, Skill development, Employability
Traffic Engineering	ECE-456 (PEC-III)	2020-2021	Entrepreneurship, Skill development, Employability
Planning and management of Building	ECE-480 (PEC-IV)	2020-2021	Entrepreneurship, Skill development, Employability
Construction and Contract Management	ECE-482 (PEC-IV)	2020-2021	Entrepreneurship, Skill development, Employability
Advanced RCC Design	ICE-701	2019-2020	Entrepreneurship, Skill development, Employability
Hydraulic Structures	ICE 703	2019-2020	Entrepreneurship, Skill development, Employability
Environmental Engineering - II Lab	ICE-751	2019-2020	Entrepreneurship, Skill development, Employability
ECM	ICE 801	2019-2020	Entrepreneurship, Skill development, Employability
Advanced Foundation Design	ICE-805(PEC-II)	2019-2020	Entrepreneurship, Skill development, Employability
Environmental Pollution Control	ICE- 810 (PEC-III)	2019-2020	Entrepreneurship, Skill development, Employability
Soil Investigation and Ground Improvement	ICE-828 (PEC-IV)	2019-2020	Entrepreneurship, Skill development, Employability
Comprehensive	ICE-852	2019-2020	Entrepreneurship, Skill development, Employability
Hydrology and Irrigation Engineering	ICE-501	2018-2019	Entrepreneurship, Skill development, Employability
SA Lab	ICE-552	2018-2019	Entrepreneurship, Skill development, Employability
Concrete technology lab	ICE-553	2018-2019	Entrepreneurship, Skill development, Employability
Transportation Engg Lab	ICE-554	2018-2019	Entrepreneurship, Skill development, Employability
Geotechnical Engg Lab	ICE-555	2018-2019	Entrepreneurship, Skill development, Employability

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			development, Employability
Environmental Engineering - I	ICE-601	2018-2019	Entrepreneurship, Skill development, Employability
Design of Concrete Structures - II	ICE-602	2018-2019	Entrepreneurship, Skill development, Employability
Environmental Engg-I Lab	ICE-651	2018-2019	Entrepreneurship, Skill development, Employability
Structural Detailing Lab	ICE-652	2018-2019	Entrepreneurship, Skill development, Employability
CACE Lab	ICE-653	2018-2019	Entrepreneurship, Skill development, Employability
Colloquium	ICE-654	2018-2019	Entrepreneurship, Skill development, Employability
Advanced RCC	ICE-701	2018-2019	Entrepreneurship, Skill development, Employability
Hydraulic Structures	ICE-703	2018-2019	Entrepreneurship, Skill development, Employability
Transportation System Planning	ICE-707 (PEC-I)	2018-2019	Entrepreneurship, Skill development, Employability
Estimation and Construction management	ICE-801	2018-2019	Entrepreneurship, Skill development, Employability
Structural Fire Engineering	ICE-815(PEC-IV)	2018-2019	Entrepreneurship, Skill development, Employability
FM Lab	ICE 351	2018-2019	Entrepreneurship, Skill development, Employability
Survey Lab	ICE 352	2018-2019	Entrepreneurship, Skill development, Employability
BPD Lab	ICE 354	2018-2019	Entrepreneurship, Skill development, Employability
BM Lab	ICE 353	2018-2019	Entrepreneurship, Skill development, Employability
Hydraulics and Hydraulic Machines	ICE-401	2018-2019	Entrepreneurship, Skill development, Employability
HHMC Lab	ICE-451	2018-2019	Entrepreneurship, Skill development, Employability
Survey-II Lab	ICE-453	2018-2019	Entrepreneurship, Skill development, Employability
Engg. Geology Lab	ICE-454	2018-2019	Entrepreneurship, Skill development, Employability
Environmental Chemistry and Microbiology	ECE-551	2022-2023	Entrepreneurship, Skill development, Employability
Environmental Quality and Natural Processes/pollution	ECE-553	2022-2023	Entrepreneurship, Skill development, Employability

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Air Pollution and Control	ECE-555	2022-2023	Entrepreneurship, Skill development, Employability
Design of Wastewater Treatment	ECE-552	2022-2023	Entrepreneurship, Skill development, Employability
Probability and Statistics for Engineers	BMA-564	2022-2023	Entrepreneurship, Skill development, Employability
Solid and Hazardous Waste Management	ECE-554	2022-2023	Entrepreneurship, Skill development, Employability
Environmental System Analysis	ECE-651	2022-2023	Entrepreneurship, Skill development, Employability
Seminar/Minor project	ECE-671	2022-2023	Entrepreneurship, Skill development, Employability
Dissertation	ECE-697	2022-2023	Entrepreneurship, Skill development, Employability
Dissertation	ECE-698	2022-2023	Entrepreneurship, Skill development, Employability
Environmental Impact Assessment	ECE-559	2022-2023	Entrepreneurship, Skill development, Employability
Surface Water Quality modeling and Control	ECE-561	2022-2023	Entrepreneurship, Skill development, Employability
Toxicology and Environmental Risk Assessment	ECE-563	2022-2023	Entrepreneurship, Skill development, Employability
Environmental economics, legislation and social impact	ECE-565	2022-2023	Entrepreneurship, Skill development, Employability
Physico-Chemical Processes in Water and Wastewater	ECE-567	2022-2023	Entrepreneurship, Skill development, Employability
Ground water flow and pollution modeling	ECE-560	2022-2023	Entrepreneurship, Skill development, Employability
Advanced water and wastewater technologies	ECE-562	2022-2023	Entrepreneurship, Skill development, Employability
Principles of Cleaner Production	ECE-564	2022-2023	Entrepreneurship, Skill development, Employability
Industrial Waste Management and environmental Audit	ECE-566	2022-2023	Entrepreneurship, Skill development, Employability
Occupational Health and Safety	ECE-568	2022-2023	Entrepreneurship, Skill development, Employability
Remote Sensing and GIS for Environmental Applications	ECE-653	2022-2023	Entrepreneurship, Skill development, Employability
Environmental Hydraulics	ECE-655	2022-2023	Entrepreneurship, Skill development, Employability
Application of soft computing techniques	ECE-657	2022-2023	Entrepreneurship, Skill development, Employability

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Transport of Water and Wastewater	ECE-659	2022-2023	Entrepreneurship, Skill development, Employability
Water Resources Management	ECE-661	2022-2023	Entrepreneurship, Skill development, Employability

***Related Activities: Assignments, Quiz, Group discussions, Tutorials, laboratory classes, Projects, etc.**

Department of Food Technology

Name of Course	Course Code	Year of Introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development*
Introduction to Food Technology	TFT 255	2021-2022	Entrepreneurship, Skill development, Employability
Analysis of Food Constituents Lab	TFT 257	2021-2022	Entrepreneurship, Skill development, Employability
Food Microbiology	TFT 256	2021-2022	Entrepreneurship, Skill development, Employability
Food Biochemistry	TFT 355	2021-2022	Entrepreneurship, Skill development, Employability
Food Chemistry	TFT 357	2021-2022	Entrepreneurship, Skill development, Employability
Technology of Animal & Milk Products	TFT 359	2021-2022	Entrepreneurship, Skill development, Employability
Principle of Food Preservation	TFT 354	2021-2022	Entrepreneurship, Skill development, Employability
Technology of Cereals, Pulses and Oilseeds	TFT 356	2021-2022	Entrepreneurship, Skill development, Employability
Fruits, Vegetable and Plantation Products	TFT 358	2021-2022	Entrepreneurship, Skill development, Employability
Fermented Foods & Beverage Technology	TFT 360	2021-2022	Entrepreneurship, Skill development, Employability
Food Processing Lab	TFT 362	2021-2022	Entrepreneurship, Skill development, Employability
Food Safety and Quality Control	TFT 401	2021-2022	Entrepreneurship, Skill development, Employability
Traditional & Fermented Foods	TFT 403 (PEC-I)	2021-2022	Entrepreneurship, Skill development, Employability
Food Processing Waste Management	TFT 407 (PEC-II)	2021-2022	Entrepreneurship, Skill development, Employability
Technology of Milk & Milk Products	TFT 411 (PEC-III)	2021-2022	Entrepreneurship, Skill development, Employability

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Nutritional aspects of Natural & Processed Food	TFT 415	2021-2022	Entrepreneurship, Skill development, Employability
Process Modeling & Simulation	TCH 422 (PEC-IV)	2021-2022	Entrepreneurship, Skill development, Employability
Innovative Techniques in Food Processing	TFT 402 (PEC-V)	2021-2022	Entrepreneurship, Skill development, Employability
Food Packaging & Storage Engineering	TFT 406 (PEC-VI)	2021-2022	Entrepreneurship, Skill development, Employability
Technology of Cereals Pulses and Oilseeds	TFT 304	2020-2021	Entrepreneurship, Skill development, Employability
Fruits Vegetable and Plantation Products	TFT 306	2020-2021	Entrepreneurship, Skill development, Employability
Technology of Milk & Milk Products	TFT 411 (PEC-III)	2020-2021	Entrepreneurship, Skill development, Employability
Nutritional aspects of Natural & Processed Foods	TFT 415	2020-2021	Entrepreneurship, Skill development, Employability
Fruits, Vegetables and Plantation Products	IFT-702	2019-2020	Entrepreneurship, Skill development, Employability
Food Packaging and Storage Engineering Rheological and Sensory Analysis of Foods Specialty Foods	Elective-I IFT-703 IFT-704 IFT-705	2019-2020	Entrepreneurship, Skill development, Employability
Nutritional Aspects of natural and processed Foods	IFT-OE	2019-2020	Entrepreneurship, Skill development, Employability
Food Quality Evaluation Lab	IFT-751	2019-2020	Entrepreneurship, Skill development, Employability
Technology of Animal Foods	IFT-801	2019-2020	Entrepreneurship, Skill development, Employability
Milk products and fermented foods Lab	IFT-851	2019-2020	Entrepreneurship, Skill development, Employability
Food Chemistry Lab	IFT-551	2018-2019	Entrepreneurship, Skill development, Employability
Food Biochemistry Lab	IFT-552	2018-2019	Entrepreneurship, Skill development, Employability
Principles of Food preservation	IFT-601	2018-2019	Entrepreneurship, Skill development, Employability
Technology of Cereals, Pulses & Oilseeds	IFT-602	2018-2019	Entrepreneurship, Skill development, Employability
Food Preservation and Processing Lab	IFT-651	2018-2019	Entrepreneurship, Skill development, Employability
Food Packaging and Storage Engineering	IFT-703	2018-2019	Entrepreneurship, Skill development, Employability

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Basic Microbiology & Food Analysis Lab.	IFT-351	2018-2019	Entrepreneurship, Skill development, Employability
Chemical Engineering Operation Lab.	ICH-453	2018-2019	Entrepreneurship, Skill development, Employability
Food Microbiology Lab.	IFT-451	2018-2019	Entrepreneurship, Skill development, Employability
Basic Concepts of Food Processing and Preservation	TFT-491	2021-22	Entrepreneurship, Skill development, Employability
Unit operation in Food Processing	TFT-456	2021-22	Entrepreneurship, Skill development, Employability
Advanced Mathematical Methods in Chemical EngineeringA	NCT- 551	2022-2023	Entrepreneurship, Skill development, Employability
Advances in Food Technology-I ABC	NFT-501	2022-2023	Entrepreneurship, Skill development, Employability
Engineering Properties of Foods ABC	NFT-503	2022-2023	Entrepreneurship, Skill development, Employability
Microbiology and Chemistry of Foods BC	NFT-505	2022-2023	Entrepreneurship, Skill development, Employability
Postharvest/Pre processing Quantified Operations A	NFT-507	2022-2023	Entrepreneurship, Skill development, Employability
Food Industry Waste Management A	NFT 509	2022-2023	Entrepreneurship, Skill development, Employability
Processing & Preservation of Foods BC	NFT 511	2022-2023	Entrepreneurship, Skill development, Employability
*Engineering Mathematics BC	NMA 501	2022-2023	Entrepreneurship, Skill development, Employability
Advances in Food Technology-II	NFT 502	2022-2023	Entrepreneurship, Skill development, Employability
Food Process Engineering	NFT 504	2022-2023	Entrepreneurship, Skill development, Employability
Food Safety & Quality Assurance	NFT 506	2022-2023	Entrepreneurship, Skill development, Employability
Nutraceutical & Functional Foods	NFT 508	2022-2023	Entrepreneurship, Skill development, Employability
Cryogenic Systems in food processing	NFT 510	2022-2023	Entrepreneurship, Skill development, Employability
Advances in Food Packaging Technologies	NFT 512	2022-2023	Entrepreneurship, Skill development, Employability
Frozen Food & Cold Chain Management	NFT 601	2022-2023	Entrepreneurship, Skill development, Employability
Novel Techniques in Food Processing & Preservation	NFT 603	2022-2023	Entrepreneurship, Skill development, Employability

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Computer Applications in Food Processing	NFT 605	2022-2023	Entrepreneurship, Skill development, Employability
Rheological Properties and Microstructure of Foods	NFT 607	2022-2023	Entrepreneurship, Skill development, Employability
Advances in Food Processing and Preservation	NFT 609	2022-2023	Entrepreneurship, Skill development, Employability
Seminar	NFT 611	2022-2023	Entrepreneurship, Skill development, Employability
Dissertation-I	NFT 613	2022-2023	Entrepreneurship, Skill development, Employability
Dissertation / Project	NFT602	2022-2023	Entrepreneurship, Skill development, Employability
Advance mathematical methods in Chemical Engineering	TCT-551	2021-22	Entrepreneurship, Skill development, Employability
Cryogenic system in Food Processing	TFT 560	2021-22	Entrepreneurship, Skill development, Employability
Advances in Food Technology-I	NFT-501	2023-2024	Employability, Entrepreneurship, Skill development
Engineering Properties of Foods	NFT-503	2023-2024	Employability, Entrepreneurship, Skill development
Microbiology and Chemistry of Foods	NFT-505	2023-2024	Employability, Entrepreneurship, Skill development
Postharvest/Pre processing Quantified Operations	NFT-507	2023-2024	Employability, Entrepreneurship, Skill development
Food Industry Waste Management	NFT-509	2023-2024	Employability, Entrepreneurship, Skill development
Processing & Preservation of Foods	NFT-511	2023-2024	Employability, Entrepreneurship, Skill development
Advances in Food Technology-II	NFT-502	2023-2024	Employability, Entrepreneurship, Skill development
Food Process Engineering	NFT-504	2023-2024	Employability, Entrepreneurship, Skill development

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Food Safety & Quality Assurance	NFT-506	2023-2024	Employability, Entrepreneurship, Skill development
Nutraceutical & Functional Foods	NFT-508	2023-2024	Employability, Entrepreneurship, Skill development
Cryogenic Systems in food processing	NFT-510	2023-2024	Employability, Entrepreneurship, Skill development
Advances in Food Packaging Technologies	NFT-512	2023-2024	Employability, Entrepreneurship, Skill development
Fundamentals of Food Science and Human Nutrition	NFT-201	2023-2024	Employability, Entrepreneurship, Skill development
Microbiology and Biochemistry of Food	NFT-203	2023-2024	Employability, Entrepreneurship, Skill development
Food Analysis Lab	NFT 205	2023-2024	Employability, Entrepreneurship, Skill development
Food Chemistry	NFT-202	2023-2024	Employability, Entrepreneurship, Skill development
Principles of Food Preservation	NFT-204	2023-2024	Employability, Entrepreneurship, Skill development
Food Chemistry Lab	NFT-206	2023-2024	Employability, Entrepreneurship, Skill development

***Related Activities: Assignments, Quiz, Group discussions, Tutorials, laboratory classes, Projects, etc.**

Department of Biochemical Engineering

Microbiology	TBE 201	2019-2020	Employability
Biochemistry	TBE-202	2019-2020	Employability
Molecular Biology & Genetic Engineering	TBE 355	2019-2020	
Bioprocess Engineering	TBE 357	2019-2020	Employability
Bioinformatics	TBE 359	2019-	

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		2020	
Down Stream Processing	TBE 354	2019-2020	Employability
Fermentation Technology	TBE 356	2019-2020	Employability
Environmental Biotechnology	TBE 358	2019-2020	
Bioreaction Engineering	TBE 360	2019-2020	Skill development
Enzyme Engineering & Technology	TBE 401	2018-2020	Employability
Bioreactor Design	TBE 403 (PEC-I)	2018-2019	Employability
Bioprocess Modelling and Simulation	TBE 405 (PEC-I)	2018-2019	Employability
Plant Cell Biotechnology	TBE 407 (PEC-II)	2018-2019	
Bioreaction Engineering	TBE 409 (PEC-II)	2018-2019	Employability
Novel Bioproducts	TBE 411 (PEC-III)	2018-2019	
Food Biotechnology	TBE 413 (PEC-III)	2018-2019	Employability, Entrepreneurship
Principal of Biochemical Engineering	OBE 433	2018-2019	Entrepreneurship , Skill development
Process Equipment Design	TCH 424 (PEC-IV)	2018-2019	Employability
IPR & Biosafety Regulation	TBE 402 (PEC-V)	2018-2019	Employability
Instrumentation And Control Bioprocesses	TBE 404 (PEC-V)	2018-2019	Employability
Bioprocess Equipment Design	TBE 406 (PEC-VI)	2018-2019	Employability
Biomaterial Science & Engineering	TBE 408 (PEC-VI)	2018-2019	Employability
Bioprocess Equipment Design	TBE 406 (PEC-VI)	2018-2019	Skill development
IPR & Biosafety Regulation	TBE 402 (PEC-V)	2018-2019	Entrepreneurship
Microbiology Lab	TBE 257	2021-22	Entrepreneurship
Bioinformatics	TBE 359	2021-22	Employability
Bioreaction Engineering	TBE 360	2021-22	Employability
Fermentation Technology	TBE 362	2021-22	Employability

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Lab			
Advance Bioreactor Design	NBE-501	2022-2023	Employability
Structural Molecular Biology	NBE-503	2022-2023	Employability
Advances in Environmental Biotechnology	NBE-505	2022-2023	Entrepreneurship
Analytical Methods in Bioprocesses	NBE-509	2022-2023	Employability, Entrepreneurship
Design of Fermenters	NBE-511	2022-2023	Employability
Advanced Molecular Biology	NBE-513	2022-2023	Employability
Plant Cell Culture Techniques	NBE-515	2022-2023	Employability
Advanced Industrial Enzymes	NBE-502	2022-2023	Entrepreneurship
Bioenergy	NBE-504	2022-2023	Entrepreneurship
Bioprocess Technology	NBE-506	2022-2023	Entrepreneurship
Advance Protein Engineering	NBE-508	2022-2023	Entrepreneurship
Bioprocess Plant Design	NBE-510	2022-2023	Entrepreneurship
Advanced Bioseparation Processes	NBE-601	2022-2023	Entrepreneurship
Bioentrepreneurship and Regulatory Issues	NBE-603	2022-2023	Entrepreneurship
Nanobiotechnology	NBE-605	2022-2023	Entrepreneurship
Fermentation Technology	OBE-601	2022-2023	Entrepreneurship
Seminar	NBE-607	2022-2023	Entrepreneurship
*Dissertation	NBE-609	2022-2023	Entrepreneurship
Dissertation	NBE-602	2022-2023	Entrepreneurship
Advanced Bioprocesses	TBE 555	2021-22	Entrepreneurship
Biological Waste Treatment	TBE 556	2021-22	Entrepreneurship
Fundamental of Life Processes	NBE-201	2023-2024	Employability, Entrepreneurship, Skill development

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Industrial Microbiology	NBE-203	2023-2024	Employability, Entrepreneurship, Skill development
Microbial Techniques Lab	NBE-207	2023-2024	Employability, Entrepreneurship, Skill development
Biochemistry	NBE-202	2023-2024	Employability, Entrepreneurship, Skill development
Environmental Biotechnology	NBE-204	2023-2024	Employability, Entrepreneurship, Skill development
Biochemical Analysis Lab	NBE-206	2023-2024	Employability, Entrepreneurship, Skill development
Advanced Bioreactor Design	NBE-501	2023-2024	Employability, Entrepreneurship, Skill development
Structural Molecular Biology	NBE-503	2023-2024	Employability, Entrepreneurship, Skill development
Advances in Environmental Biotechnology	NBE-505	2023-2024	Employability, Entrepreneurship, Skill development
Analytical Methods in Bioprocesses	NBE-509	2023-2024	Employability, Entrepreneurship, Skill development
Design of Fermenters	NBE-511	2023-2024	Employability, Entrepreneurship, Skill development
Advanced Molecular Biology	NBE-513	2023-2024	Employability, Entrepreneurship, Skill development
Plant Cell Culture Techniques	NBE-515	2023-2024	Employability, Entrepreneurship, Skill development
Advanced Industrial Enzymes	NBE-502	2023-2024	Employability, Entrepreneurship, Skill development
Bioenergy	NBE-504	2023-2024	Employability, Entrepreneurship, Skill development
Bioprocess Technology	NBE-506	2023-2024	Employability, Entrepreneurship, Skill development

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			development
Advance Protein Engineering	NBE-508	2023-2024	Employability, Entrepreneurship, Skill development
Bioprocess Plant Design	NBE-510	2023-2024	Employability, Entrepreneurship, Skill development

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